

TABLE 2.—Data furnished by the Canadian Meteorological Service, September 1934

Stations	Altitude above mean sea level, Jan. 1, 1919	Pressure			Temperature of the air						Precipitation		
		Station reduced to mean of 24 hours	Sea level reduced to mean of 24 hours	Depart- ure from normal	Mean max. + mean min. ÷ 2	Depart- ure from normal	Mean maxi- mum	Mean mini- mum	Highest	Lowest	Total	Depart- ure from normal	Total snow- fall
	Feet	In.	In.	In.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.
Cape Race, Newfoundland.....	99				55.0		61.8	48.2	71	33	1.27		0.0
Sydney, Cape Breton Island.....	48	30.11	30.16	+0.15	63.7	+7.2	73.5	54.0	86	39	1.34	-1.94	.0
Halifax, Nova Scotia.....	88	29.93	30.03	-.01	64.0	+6.4	70.3	57.8	78	47	5.18	+1.47	.0
Yarmouth, Nova Scotia.....	65	30.04	30.11	+0.06	62.6	+6.5	71.1	54.0	79	36	2.99	-.62	.0
Charlottetown, Prince Edward Island.....	38	30.14	30.18	+0.17	62.8	+6.5	69.2	56.4	79	47	1.49	-1.91	.0
Chatham, New Brunswick.....	28	30.02	30.05	+0.05	60.4	+5.0	70.4	50.3	83	37	2.15	-.56	.0
Father Point, Quebec.....	20	30.04	30.06	+0.08	54.2	+3.8	62.5	45.8	82	36	1.50	-1.63	.0
Quebec, Quebec.....	296	29.79	30.11	+0.10	60.6	+5.5	66.8	54.4	78	40	3.48	-.19	.0
Doucet, Quebec.....	1,236				53.7		63.9	43.5	81	26	5.45		1.6
Montreal, Quebec.....	187												
Ottawa, Ontario.....	236	29.80	30.06	+0.02	62.8	+5.4	71.2	54.5	86	41	4.17	+1.48	.0
Kingston, Ontario.....	285	29.75	30.06	+0.02	64.0	+4.0	69.9	58.1	79	48	4.93	+2.13	.0
Toronto, Ontario.....	379	29.63	30.03	+0.03	62.9	+3.9	69.6	56.2	78	44	4.24	+0.99	.0
Cochrane, Ontario.....	930				53.3		61.0	45.6	78	30	5.65		.5
White River, Ontario.....	1,244	28.67	29.99	+0.01	49.5	-.8	59.7	39.3	76	18	5.17	+2.40	.0
London, Ontario.....	808				62.7		70.8	54.6	82	38	4.48		.0
Southampton, Ontario.....	656	29.30	30.01	-.04	61.4	+3.9	69.4	53.4	84	37	4.76	+1.82	.0
Perry Sound, Ontario.....	688	29.33	30.01	-.02	61.1	+5.1	67.9	54.3	82	41	3.81	+0.14	.0
Port Arthur, Ontario.....	644	29.27	29.98	.00	50.6	-1.6	56.6	44.6	66	30	4.38	+0.90	.0
Winnipeg, Manitoba.....	760	29.12	29.95	+0.01	50.5	-2.0	58.9	42.0	83	26	4.34	+2.31	4.3
Minneapolis, Manitoba.....	1,690	28.13	29.95	+0.01	47.3	-3.2	57.1	37.6	86	25	2.73	+1.37	1.8
Le Pas, Manitoba.....	860		29.97		46.0		55.3	36.7	85	22	3.46		1.0
Qu'Appelle, Saskatchewan.....	2,115	27.68	29.93	+0.01	46.4	-4.7	57.2	35.5	88	12	1.62	+0.29	10.6
Moose Jaw, Saskatchewan.....	1,759				47.8		58.6	36.9	85	12	1.60		8.6
Swift Current, Saskatchewan.....	2,392	27.40	29.93	+0.01	47.4	-5.7	57.7	37.1	88	15	1.89	+0.67	2.9
Medicine Hat, Alberta.....	2,365	27.44	29.93	+0.01	48.9	-6.1	59.1	38.7	88	9	2.22	+1.04	9.5
Calgary, Alberta.....	3,540	26.30	29.99	+0.07	45.7	-4.1	56.2	35.2	82	10	2.23	+0.87	12.2
Banff, Alberta.....	4,521	25.43	30.02	+0.09	44.0	-1.8	55.1	32.8	84	12	1.40	-.27	6.0
Prince Albert, Saskatchewan.....	1,450	28.42	30.00	+0.10	45.6	-2.8	55.4	35.8	88	20	1.04	-.24	.0
Battleford, Saskatchewan.....	1,592	28.24	29.99	+0.09	45.6	-6.2	56.1	35.1	88	18	.95	-.30	1.3
Edmonton, Alberta.....	2,150	27.70	30.00	+0.10	44.2	-5.1	52.8	35.5	88	15	2.39	+1.06	9.4
Kamloops, British Columbia.....	1,262	28.74	30.02	+0.05	57.0	-.4	67.3	46.8	91	34	1.16	+0.31	.0
Victoria, British Columbia.....	230	29.79	30.04	+0.03	54.2	-.6	63.3	45.0	87	42	1.26	-.90	.0
Barkerville, British Columbia.....	4,180												
Estevan Point, British Columbia.....	20				54.8		60.4	49.2	72	30	5.99		.0
Prince Rupert, British Columbia.....	170				52.5		59.4	45.6	74	34	9.86		.0
Hamilton, Bermuda.....	151	29.98	30.14	+0.07	80.4	+3.0	86.0	74.8	89	70	1.85	-4.66	.0

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Southampton, Ontario.....	656	29.31	30.02	+0.03	61.6	-2.2	71.8	51.5	90	34	2.39	+0.14	.0
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SEVERE LOCAL STORMS, SEPTEMBER 1934

[Compiled by Mary O. Souder]

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the Annual Report of the Chief of Bureau]

Place	Date	Time	Width of path (yards)	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Pratt County, Kans.....	2	3:30-4 p. m.	120	0		Tornado.....	Few telephone poles blown down; only slight damage reported; path 15 miles long.	Official, U. S. Weather Bureau.
Rifle, near, Colo.....	3					Heavy rain.....	A landslide caused by local storms partially dammed the Colorado River closing both the railway and the highway, temporarily interfering with traffic.	Do.
New Haven, Conn., and vicinity.....	8	P. m.				Wind and rain.....	Electric wires and some transportation lines impaired; in Milford trolley cars were inundated, delaying schedule.	Do.
Brooklyn, N. Y., and vicinity.....	8	9 p. m.		1		Heavy wind and rain.....	Traffic almost impossible; service on the Long Island R. R. between Flatbush and east New York held up for several hours; cellars flooded; derrick broke loose; boy drowned while sailing.	Do.
Atlantic City, N. J., vicinity of.....	8	P. m.		3		Wind and rain.....	3 men on fishing trip drowned when their 35-foot power boat capsized 2½ miles off shore.	Do.
Hatteras, N. C., and nearby coastal areas.....	8					do.....	Maximum wind velocity of 64 miles at 6 a. m., and 7.7 inches of precipitation for the 24 hours ending 8 a. m.; no property damage or loss of life reported.	Do.
Arnett, Okla., 4 miles south.....	9	3 p. m.	12		\$25,000	Hail.....	Crop loss \$25,000; hailstones as large as hen eggs destroyed practically all crops in the main path which was 12 miles long.	Do.
Pampa, Tex., and vicinity.....	9	do	18		12,000	do.....	\$2,000 loss in fruit and \$10,000 to other crops; path 20 miles long.	Do.
Bristol, Tex.....	9	5:30 p. m.	200	0		Tornado.....	Buildings damaged.....	Do.
Erick, Okla., vicinity of.....	9	6 p. m.	12		20,000	Hail.....	Cotton and feed crops destroyed.....	Do.
Buffalo, N. Y., and vicinity.....	12	1:45-7:15 p. m.		1	5,000	Electrical and rain.....	A number of transformers of the General Electric Co. struck by lightning; sewers and viaducts flooded, delaying traffic; several houses struck by lightning; at Albion a man who sought refuge in a shack killed by lightning.	Do.

1 Miles instead of yards.

SEVERE LOCAL STORMS, SEPTEMBER 1934—Continued

Place	Date	Time	Width of path (yards)	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Chicago, Ill., and vicinity.....	12	2:07-3:50 p. m.				Thunderstorm, excessive rain.	Streets and basements flooded; traffic delayed; some damage from lightning.	Official, U. S. Weather Bureau.
Clyde, Okla.....	12	4 p. m.	880	0	600	Tornado and hail.	Telephone and telegraph wires blown down; church twisted from its foundation; other property damaged.	Do.
Paducah, Tex.....	13	5:35 p. m.	15		5,000	Hail.....	Crop loss \$5,000; roofs damaged; poultry, birds and rabbits killed; path 15 miles long.	Do.
Fredericksburg, Va., and vicinity.	13-14			1	40,000	Heavy rain and flood.	Fireman killed and engineer and brakeman injured when a train on the Virginia Central R. R. went through a trestle weakened by a washout carrying away some of the bridge supports; property damaged; severe loss in lowland crops.	Do.
Avondale, Colo.....	14	5 p. m.	17			Heavy rain and hail.	Creeks overflowed; bridges and several hundred feet of railway tracks washed out; loss of several thousand dollars to poultry, crops, and property.	Do.
Jerseyville, Ill.....	14					Wind.....	Telephone and electric service disrupted; trees uprooted and several buildings damaged.	Do.
Harrisburg and Mecklenburg Counties, Va.	14		140		23,000	Heavy rain.....	Roads heavily damaged; 15 bridges washed out.....	Do.
Norfolk and Princess Anne Counties and Richmond, Va.	16			1		Heavy rain and flood.	11 persons injured; rivers overflowed; 3 bridges washed out; traffic congested; property damaged and loss to crops.	Do.
Southampton, Sussex, Nansemond and Isle of Wight Counties, Va.	16		150		36,500	Heavy rain.....	Roads damaged and 13 bridges washed out.....	Do.
Washington County, Va.....	16		140		19,000	do.....	Secondary roads washed out and undermined.....	Do.
Amherst and Nelson Counties, Va.	17		130		22,000	do.....	Many road slides and many bridges washed away.	Do.
Wrightsville Beach, and Harbor Island, N. C.	19	1:30 p. m.				Waterspout.....	With a black sky for a background and a calm ocean for a base, the tall column of rising water made a striking picture; the phenomenon lasted 15 minutes and appeared to be about a mile off Moores Inlet; grew larger as it approached the shore; the water around the base seemed to be boiling and churning but the remainder of the ocean was glassy calm; after growing to large proportions the waterspout dwindled away as though someone had begun cutting the strands of a string one by one, and finally entirely disappeared.	Do.
Butler and Greenwood Counties, Kans.	20	3:30 p. m.	115		15,000	Wind, rain, and hail.	Storm had tornadic characteristics; oil rigs blown down; roof of large garage blown off; in Eureka 5 inches of rain fell in 2 hours flooding the city; path 35 miles long.	Do.
Montana.....	20-25					Snowfall.....	An unseasonably early and unprecedented heavy snowfall for some sections, particularly the north-central; shade trees damaged considerably by accumulated wet snow breaking off branches as large as 4 to 5 inches in diameter; traffic interfered with; hundreds of sheep lost from crowding in corrals and drifting over cutbanks; in Helena greatest amount of snowfall ever accumulated on the ground in September occurred on the 22d when 4.8 inches was measured at 10 a. m.; in Havre the greatest depth on ground was 6.5 inches at 6 a. m. of the 24th.	Do.
Alpena, Mich.....	21	2-4 p. m.				Electrical and rain.	Lightning struck a residence and caused a factory to suspend operations until repairs could be made; no estimate of damage given.	Do.
Rockville and Montezuma, Ind.	21	2:45 p. m.		2		Thunderstorm.....	Man killed by lightning in Rockville, another in Montezuma.	Do.
Northumberland and Lancaster Counties, Va.	21		130		29,000	Heavy rainfall.....	Damage to roads, bridges, and mill dams; roads impassable for several days.	Do.
Loup City and Ashton, Nebr.	23	6 p. m.	11	0	10,000	Tornado.....	3 persons injured; property damaged.....	Do.
Colby, Kans., 7 miles southwest to 2 miles east.	23	6:30 p. m.	440	0	2,725	do.....	Large barn and a number of smaller buildings damaged; path 9 miles long.	Do.
Greeley to Spalding, Nebr.	23	7:30-8 p. m.	11	0	5,000	do.....	Property damaged.....	Do.
Petersburg to Elgin, Nebr.	23	8 p. m.	1,000	0	30,000	do.....	Damage to property.....	Do.
Minnesota, extreme southeastern counties bordering the Mississippi River.	23-26				12,740	Excessive rain and flood.	Lowlands in the Whitewater, Root, and Zumbro River Valleys inundated; 2 highway bridges near Mazeppa washed out; in Winona the Mississippi River rose 2 feet and several streets were flooded; damage to highways, railroad property, and to crops.	Do.
Pepin, Buffalo, Trempealeau and northern La Crosse Counties, Wis.	25-26					Heavy rain.....	Streams and smaller rivers overflowed, causing much damage to highways and bridges; steel bridge 40 feet long washed 300 feet down stream on Big Waumandee Creek, Buffalo County.	Do.
Watonga, Okla., vicinity of.....	27	P. m.	13			Hail.....	Crops in storm path completely destroyed; property damaged; path 11 miles long.	Do.
Montgomery County, Kans....	28	6:40 p. m.			1,200	Wind.....	Damage to residences, outbuildings, power and telephone lines; path 8 miles long.	Do.
Springfield, Mo., 1½ miles south of.	29	3:45 a. m.	100		500	Tornadic wind....	Noise as though 3 large trucks without mufflers going fast down the street; heavy parcel post sheet iron box moved along street about 100 yards; 15 minutes after storm passed the air was filled with twigs, paper composition roofing and other light debris; small metal beauty parlor sign picked up and its original location not determined, as no such shop located anywhere in this vicinity; no increase in the rain which had been falling since the 28th; plate glass windows in 3 stores blown out; ruins of metal garage blown by the wind deposited in a back yard; padlock stripped with its hinges from a garage door and doors swung open without any material damage.	Do.

1 Miles instead of yards.